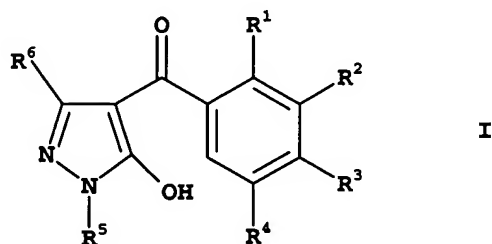


**Abstract**

A synergistic herbicidal mixture comprising

A) at least one 3-heterocyclyl-substituted benzoyl derivative of the formula I



in which the variables have the following meanings:

$R^1$ ,  $R^3$  are halogen, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl;

$R^2$  is a optionally substituted heterocyclic radical selected from the group: isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydro-isoxazol-4-yl and 4,5-dihydroisoxazol-5-yl;

$R^4$  is hydrogen, halogen or alkyl;

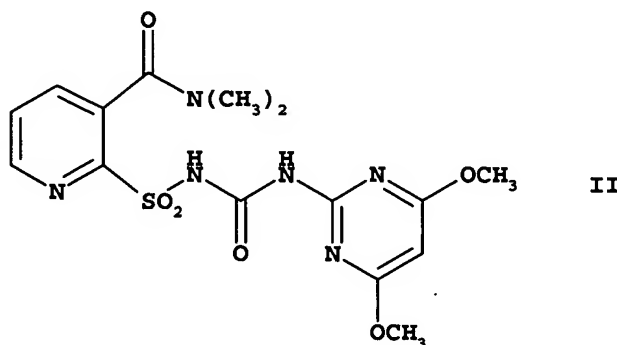
$R^5$  is alkyl;

$R^6$  is hydrogen or alkyl;

or one of its environmentally compatible salts;

and

B) the compound of formula II



or one of its environmentally compatible salts;

and

- C) at least one further herbicidal compound from the group of the acetolactate synthase inhibitors (ALS), lipid biosynthesis inhibitors and photosynthesis inhibitors;

in a synergistically effective amount.

Compositions comprising these mixtures, processes for the preparation of these compositions, and their use for controlling undesired plants.